EACH BRIDGE CONSISTS OF

12 - 6	O'-O" TYPE II PSC BEAM S	SPANS		- SPECIAL	DESIGN
2 - P	SC PILE END BENTS			- SPECIAL	DESIGN
II - P	SC PILE INTERMEDIATE BE	INTS		- SPECIAL	DESIGN
4 - EI	ND POST AND GUARDRAIL A _ = 4'-0"; W = 1'-1"; h	ATTACHMENT DETAIL H = 2'-8")	GA. STD	. 3054 (9	-30-02)
SG	UARE PRESTRESSED CONCR	ETE PILES	GA. STD	. 3215 (2-	22-84)
BA	R BENDING DETAILS		GA. S	STD. 3901	(8-69)
ΤΥ	PICAL FILL DETAIL AT EI	ND OF BRIDGE	GA. S	STD. 9037	(9-99)

DRAINAGE DATA

DRAINAGE	AREA				105 3	DO MILES
FLOOD F	REQUENCY	<u>DISCHAR(</u>	<u>ge</u> <u>mean</u> '	<u>VELOCITY</u>	AREA OF UNDER FLO	
50	YEAR	7598 CF	-S 2.3	3 FPS	3,240	SQ FT
100	YEAR	9095 CF	-S 2.5	3 FPS	3 , 591	SQ FT
500	YEAR	13017 CF	-S 2.9	9 FPS	4,352	SQ FT

CONSTRUCTION SEQUENCE

EXISTING BRIDGE TO REMAIN OPEN TO TRAFFIC UNTIL COMPLETION OF PROPOSED RIGHT BRIDGE. TRAFFIC SHALL THEN BE SHIFTED TO RIGHT BRIDGE AND THE EXISTING BRIDGE SHALL BE REMOVED. CONSTRUCT PROPOSED LEFT BRIDGE. OPEN BOTH BRIDGES TO TRAFFIC.

THE AFOREMENTIONED SEQUENCE SHALL BE COORDINATED WITH ROADWAY OPERATIONS. SEE ROADWAY PLANS. IN LIEU OF THE ABOVE CONSTRUCTION SEQUENCE, THE CONTRACTOR MAY SUBMIT A PROPOSED CONSTRUCTION SEQUENCE FOR APPROVAL.

TRAFFIC DATA

TRAFFIC	ADT = 31,400 (2004) ADT = 53,450 (2024)
DESIGN SPEED	65 MPH
TRUCKS	6 %
24 HR TRUCKS	8 %
DIRECTIONAL	62/38

UTILITIES

NONE

DESIGN DATA

SPECIFICATIONS (DESIGNED FOR SEISMIC PERFORMANCE CATEGORY A)
TYPICAL HS20-44 AND/OR MILITARY LOADING IMPACT ALLOWED
FUTURE PAVING ALLOWANCE 30 LBS PER SQ FT
CONCRETE: SUPERSTRUCTURE
REINFORCEMENT STEEL:
PRETENSIONING STRANDS: f's = 270,000 PSI

GENERAL NOTES

SPECIFICATIONS	- GEORGIA	STANDARD	SPECIFICATIONS,	2001	EDITION,	AS MODIFIED	BY
CONTRACT DO	CUMENTS.						

- REINFORCING STEEL PLACE AND TIE ALL REINFORCING STEEL IN ACCORDANCE WITH THE GEORGIA DOT SPECIFICATIONS. DO NOT WELD REINFORCING STEEL.
- CHAMFER CHAMFER ALL EXPOSED CONCRETE EDGES 3/4" UNLESS OTHERWISE NOTED.
- TRAFFIC CONTROLS SEE ROADWAY PLANS FOR TRAFFIC CONTROLS AND TRAFFIC CONTROL PAYMENT.
- EXISTING BRIDGE PLANS ORIGINAL BRIDGE PLANS ARE NOT AVAILABLE.
- WAITING PERIOD NONE REQUIRED.
- PLAN DRIVING OBJECTIVE SEE SUBSTRUCTURE DETAILS.
- PILING JETTING OR SPUDDING OF PSC PILING MAY BE NECESSARY AT THIS SITE TO ACHIEVE THE INDICATED PLAN DRIVING OBJECTIVE. AT CONTRACTOR'S OPTION. USE PREDRILLING IN LIEU OF JETTING OR SPUDDING. THE EXTENT OF PREDRILLING SHALL BE NO DEEPER THAN THE TIP ELEVATION SHOWN. SEE SECTION 520 OF THE GEORGIA DOT SPECIFICATIONS.

BENT NUMBER	PILE TIP ELEVATION
1	141.00
2-6	118.00
7-9	108.00
10-12	118.00
13	133.00

TEST PILES - DRIVE TEST PILES AT THE FOLLOWING LOCATIONS:

- ONE 16 IN SQ PSC X 54 FT AT BENT 13 (RIGHT BRIDGE ONE 20 IN SQ PSC X 55 FT AT BENT 2 (LEFT BRIDGE) ONE 20 IN SQ PSC X 45 FT AT BENT 6 (RIGHT BRIDGE) ONE 20 IN SQ PSC X 50 FT AT BENT 10 (RIGHT BRIDGE)
- SMOOTH DOWEL BARS PLACE SMOOTH DOWEL BARS IN FORMED 3" DIAMETER X 12" DEEP HOLES AND GROUT IN PLACE SIMILAR TO ANCHOR BOLTS, SEE SUB-SECTION 501.3.05.B.3 OF THE GEORGIA DOT SPECIFICATIONS. STIRRUPS MAY BE SHIFTED SLIGHTLY TO CLEAR FORMED HOLES.
- GROOVED CONCRETE GROOVE THE ENTIRE LENGTH OF THE BRIDGE TRANSVERSELY AS PER SUB-SECTION 500.3.05.T.9.C OF THE GEORGIA DOT SPECIFICATIONS.
- WELDING ALL WELDING ON GEORGIA DOT PROJECTS SHALL BE PERFORMED BY CERTIFIED WELDERS THAT HAVE IN THEIR POSSESSION A CURRENT WELDING CERTIFICATION CARD ISSUED BY THE OFFICE OF MATERIALS AND RESEARCH. USE ONLY E70XX (EXCLUDING E7014 AND E7024) LOW HYDROGEN ELECTRODES FOR MANUAL SHIELDED METAL ARC WELDING.
- SALVAGE MATERIAL NO MATERIAL REMOVED FROM THE EXISTING STRUCTURE SHALL BE SALVAGED FOR USE BY THE GEORGIA DOT.
- INCIDENTAL ITEMS INCLUDE THE COST INCIDENTAL TO THE WORK THAT IS NOT SPECIFICALLY COVERED BY THE GEORGIA STANDARD SPECIFICATIONS, SUPPLEMENTAL SPECIFICATIONS AND/OR SPECIAL PROVISIONS IN THE OVERALL BID SUBMITTED. THIS INCLUDES THE COST OF WATERPROOFING, JOINT FILLERS, AND OTHER INCIDENTAL ITEMS NECESSARY TO COMPLETE THE WORK.

PAY ITEM	QUANTI LEFT	R ! GHT		DAMITEM
<u>NUMBER</u> 500-0100	<u>BRIDĞ</u> E 2880	2880	<u>UNIT</u> SY	PAY ITEM GROOVED CONCRETE
	2000			
500-1006	LUMP		LS	SUPERSTR CONCRETE, CL AA, BR NO - I LT (824)
500-1006		LUMP	LS	SUPERSTR CONCRETE, CL AA, BR NO - I RT (824)
500-2100	1428	I 428	LF	CONCRETE BARRIER
500-3101	140	140	CY	CLASS A CONCRETE
507-9002	3559		LF	PSC BEAMS, AASHTO TYPE II, BR NO - I LT
507-9002		3559	LF	PSC BEAMS, AASHTO TYPE II, BR NO - I RT
511-1000	16161	16161	LB	BAR REINF STEEL
511-3000	LUMP		LS	SUPERSTR REINF STEEL, BR NO - 1 LT (222001)
511-3000		LUMP	LS	SUPERSTR REINF STEEL, BR NO - 1 RT (222001)
520-2216	310	260	LF	PILING, PSC, 16 IN SQ
520-2220	2450	2410	LF	PILING, PSC, 20 IN SQ
520-3216		I	EA	TEST PILE, PSC, 16 IN SQ
520-3220	2	3	ΕA	TEST PILE, PSC, 20 IN SQ

520-4216

520-4220

540-1102

603-2024

603-7000

306

306

SUMMARY OF QUANTITIES

BRIDGE NO. I LT. AND RT.

I EA LOAD TEST, PSC, 16 IN SQ (IF REQD)

306 SY STN DUMPED RIP RAP, TP 1, 24 IN

306 SY PLASTIC FILTER FABRIC

EA LOAD TEST, PSC, 20 IN SQ (IF REQD)

REMOVAL OF EXISTING BRIDGE, BR NO - 1 LT

REVISIONS DESIGNED DESCRIPTION DATE | A | DRAWN DAW CHECKED Moreland Altobelli GDOT LIAISON Associates, Inc. REVIEWED WEI 2211 Beaver Ruin Road Suite 190 APPROVED PVLNorcross, Georgia 3007 Tel.: (770) 263-5945 SCALE : NONE AUGUST 2009

GEORGIA DEPARTMENT OF TRANSPORTATION PRECONSTRUCTION DIVISION - OFFICE OF BRIDGE AND STRUCTURAL DESIGN

> GENERAL NOTES SR 4 (US I) OVER PENDLETON CREEK

> > DRAWING No.

EDS00-0545-00(014) BRIDGE SHEET 35-0002 TOOMBS/EMANUEL COUNTY 2 OF 13